

Title (en)
METHOD FOR EXCAVATING ROCK CAVITIES

Title (de)
VERFAHREN ZUM HERSTELLEN VON RÄUMEN IM FELSGESTEIN

Title (fr)
PROCEDE D'EXCAVATION DE CAVITES ROCHEUSES

Publication
EP 0752050 A1 19970108 (EN)

Application
EP 95914651 A 19950327

Priority
• SE 9500324 W 19950327
• SE 9401055 A 19940327

Abstract (en)
[origin: WO9526456A1] A method for excavating rock cavities in the form of substantially cylindrical, vertical or low placed rock cavities for the storage of gas, fluid, solid products or for another purpose, whereby one, from a transport tunnel (2), excavates an upper circular room (3), that one, from this circular room (3), excavates the roof shape of the rock cavity (1) to be; that one, from a second transport tunnel (7) excavates a second annular tunnel (5) from a middle level in the rock cavity (1) to be; and that one, from said second transport tunnel (7), excavates a lower circular room (8) situated on a level which is substantially at the level where the lowest level of the rock cavity (1) to be, is, that one, at this lowest level excavates a third annular tunnel (13); that one, between said circular room (8) and said third annular tunnel (13) provides tap holes (9); that one, from said second annular tunnel (5), carries out stopping in a substantially annular vertical or inclined zone from said middle level to said lowest level and removes blasted rock mass through said tap holes (9), that one separates a substantially conical roof volume (10) above said annular room (8) whereafter, finally, a remaining, central, substantially cylindrical rock pillar (14), substantially placed above said annular room (8), is blasted completely or partly at one or more events and rock mass obtained is removed via said tap holes (9).

IPC 1-7
E21D 13/02

IPC 8 full level
E02D 29/045 (2006.01); **E21D 13/00** (2006.01); **E21D 13/02** (2006.01)

CPC (source: EP KR US)
E21D 13/00 (2013.01 - EP KR US)

Citation (search report)
See references of WO 9526456A1

Designated contracting state (EPC)
AT CH DE ES FR GB IT LI PT SE

DOCDB simple family (publication)
WO 9526456 A1 19951005; AU 2154995 A 19951017; EP 0752050 A1 19970108; FI 963837 A0 19960926; FI 963837 A 19960926; JP H09511036 A 19971104; KR 970702419 A 19970513; NO 964044 D0 19960926; NO 964044 L 19961126; PL 175804 B1 19990226; PL 316617 A1 19970120; RO 115817 B1 20000630; SE 504669 C2 19970324; SE 9401055 D0 19940327; SE 9401055 L 19961004; US 5855452 A 19990105

DOCDB simple family (application)
SE 9500324 W 19950327; AU 2154995 A 19950327; EP 95914651 A 19950327; FI 963837 A 19960926; JP 52512495 A 19950327; KR 19960705372 A 19960925; NO 964044 A 19960926; PL 31661795 A 19950327; RO 9601867 A 19950327; SE 9401055 A 19940327; US 71900796 A 19960924